

Chemical	Concentration	Time	Temperature	Pressure	Flow Rate	Volume	Mass	Energy	Power	Efficiency	Yield	Purity	Stability	Toxicity	Biocompatibility	Biodegradability	Regulatory Status	Commercial Availability	Research Status	Future Prospects
Hydrogen	100%	10 min	25°C	1 atm	1 L/min	10 L	0.089 g	1.2 kJ	120 W	100%	99.9%	Stable	Low	High	High	Not Approved	Available	Active	High Potential	
Oxygen	21%	10 min	25°C	1 atm	1 L/min	10 L	0.336 g	1.3 kJ	130 W	100%	99.9%	Stable	Low	High	High	Not Approved	Available	Active	High Potential	
Nitrogen	78%	10 min	25°C	1 atm	1 L/min	10 L	1.251 g	1.3 kJ	130 W	100%	99.9%	Stable	Low	High	High	Not Approved	Available	Active	High Potential	
Carbon Dioxide	0.04%	10 min	25°C	1 atm	1 L/min	10 L	0.0017 g	1.3 kJ	130 W	100%	99.9%	Stable	Low	High	High	Not Approved	Available	Active	High Potential	
Water Vapor	1.6%	10 min	25°C	1 atm	1 L/min	10 L	0.017 g	1.3 kJ	130 W	100%	99.9%	Stable	Low	High	High	Not Approved	Available	Active	High Potential	
Air	21% O ₂ , 78% N ₂ , 0.04% CO ₂ , 1.6% H ₂ O	10 min	25°C	1 atm	1 L/min	10 L	1.29 g	1.3 kJ	130 W	100%	99.9%	Stable	Low	High	High	Not Approved	Available	Active	High Potential	